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[Improving IPC by kernel design - all 34 versions »](#)

J Liedtke - Proceedings of the fourteenth ACM symposium on Operating Systems, 1994 - [portal.acm.org](#)

... minimal sequence of essential basic actions: thread A (user mode): load id of B
 set msg length to O call kernel kernel: access thread B switch stack pointer ...

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[Performance analysis using the MIPS R10000 performance counters - all 11 versions »](#)

M Zaghera, B Larson, S Turner, M Itzkowitz - Proceedings of Supercomputing, 1996 - [doi.ieeecomputersociety.org](#)

... very low cost in terms of the per-chip resources used ... We focus on user mode in this paper ... The kernel maintains up to 32 different 64-bit virtual counters for the ...

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... view of thinking of it as an add-on coprocessor. ... and virtualization must apply to any resource at any ... be modified by the OS running in kernel mode This address ...

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... Those resources can be locked by the kernel. ... Typically, coprocessors can only be locked by kernel-mode software ... If CoprocessorUsed is set the kernel locks the co ...

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[Copilot-a coprocessor-based kernel runtime integrity monitor - all 8 versions »](#)

NL Petroni Jr, T Fraser, J Molina, WA Arbaugh - Proceedings of the 13th conference on USENIX Security ..., 2004 - [portal.acm.org](#)

... security is to ensure the integrity of system resources. ... are designed to make the kernel re- turn ... incomplete information when queried by user-mode programs, in ...

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JE Moreira, G Almasi, C Archer, R Bellofatto, P ... - IBM Journal of Research and Development, 2005 - [research.ibm.com](#)

... Physical resources—torus and collective networks, locks, barriers ... are meaningless in this kernel and have ... In coprocessor mode, a single dual-threaded process ...

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[Detecting Stealth Software with Strider GhostBuster - all 4 versions »](#)

YM Wang, D Beck, B Vo, R Roussev, C Verbowski - Proc. DSN, 2005 - [doi.ieeecomputersociety.org](#)

... detected by running GhostBuster in the advanced mode. ... employ a wide variety of resource-hiding techniques ... [J01] K. Jones, "Loadable kernel modules," ;login ...

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... Page 5. not perform any of the resource management activities, it only notices the

system processor when there is a ... Kernel Kernel ... Figure 3: User Coprocessor Mode ...

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... a bus-fault exception, even in the kernel mode. ... waiting thread is locked for some event or resource. ... threads do not use the floating point co-processor. ...

[Cited by 142](#) - [Related Articles](#) - [Web Search](#)

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P Gutmann - [usenix.org](#)

... specialised, expensive embedded or real-time kernel or OS ... going and has the smallest resource requirements, it ... a bootstrap loader for real-mode applications and ...

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... and the fact that at the thread level only limited resource management facilities ...

kernel layer (interrupt context) interrupt i/f system-mode user-mode ...

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... Hence the resulting kernel mode encryption rate was over 35 MB/s. A user mode version using the ... system is simpler, uses less resources than conventional ...

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... an extension of the UNIX system V kernel, and a ... user to select a combination of system resources that are ... PCSTART also provides a prompting mode for the casual ...

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... If resource contention prevents the network from accepting ... Control over user-level interrupts is implemented by ... bits are only modifiable in kernel mode and are ...

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... combined with more embedded resources, as for ... AcoUlsmoN I _ i Kernel mode _____ I ... implementation of the Reconfigurable Instrumentation Coprocessor. ...

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... RD stage registers according to the resource conflicts coming ... CPO is called the system control coprocessor and is ... The processor is in Kernel mode when KSU is ...

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... to have sufficient access to the resources of the ... interrupts are disabled during operation in the kernel mode. ... Coprocessor Unit The coprocessor unit is used to ...

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... A kernel for each media module to switch tasks is ... In the VLIW mode, a 32-bit fixed length ... Decoder) utilizes the DSP extension with a resource sharing technique ...

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... the IPSec- related processing is performed in kernel mode. ... bandwidth was limited through the kernel's device ... time, using IPComp can be resource consuming for ...

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A Rubini - Linux Documentation Project - [ldp.dvo.ru](#)

... known that the filesystem is the most basic resource in a ... It isn't unlikely for your kernel to be somewhat ... When in normal mode, the character being printed is ...

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... Early Init Kernel Disk Probe Kernel Late Init User-mode Init ... kernel, and similar in function to Two Kernel Monte ... Resources Open Source Development Lab Resources: ...

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... exports kernel services to user mode applications and contains five vital system ...

1. The Process Manager is responsible using Kernel services to ... resource access ...

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... be allowed to access a resource r in mode a if ... it does not share memory or similar resources with the ... An isolation kernel (identified by its code identity) can ...

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... or store which requires external resources, the pipe ... 3: Memory-management and system-control coprocessor ... kernel physical address space in @-bit kernel mode. ...

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[UU UU UU UU](#)

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... three-mode machine this would mean the use of 24 ... a group of sixteen individually addressed ... b. Resource management — The ... 112fc as well as a kernel stack pointer 13 ...

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... privileged machine instructions and resources not available ... There are three types of coprocessor instructions: Data ... support running in kernel-mode, which hosts ...

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... and application resource availability [5]. In Cougar, all of the resources on a compute ... In the second mode, message co-processor mode, the kernel runs on ...

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... in 9 cycles at both user or kernel levels. ... The interface resorts to the buffered mode when a message ... the application the illusion of a very large resource. ...

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... images before the virtual machine ran out of resources" (Thornton 2000 p ... sensitive' (ie needed to be run in OS kernel supervisory mode) but did ...

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... an operating system trap during an operation to shared or protected resources. ... modes of operation, eg, user mode, supervisor mode, and kernel mode, may use ...

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... information indicative of the status of resources; and the ... needed in order for the coprocessor to determine ... One address is used for kernel mode commands, and ...

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... services run in kernel mode not user mode. ... management, loading modules and reserving certain kernel resources. ... specic component of the Kernel is responsible ...

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... We discussed cross-view diff-based hidden resource detection for ... easy way to detect all user-mode rootkits: by ... J01] Jones, K., "Loadable kernel modules," ;login ...

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... core here represents a generic programmable resource for which ... system: one is the SystemC simulation kernel, while the other is the user mode Linux virtual ...

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U Steinberg - os.inf.tu-dresden.de

... only implement a few stubs in kernel space ... merely ensures the protection of these resources or makes ... a library operating system which user mode applications are ...

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[Read-only access to CPO registers - all 3 versions »](#)

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... The kernel mode instructions also have access to the GPR ... one embodiment, the privilege level resources 112 of ... performing such tasks is called Coprocessor 0, or ...

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... Command Buffer Scheduler 406 j> CB selected for dispatch Kernel Mode Driver 707 ...

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... management, • multiple data transfer instructions, • freeze-mode operation, • multiprocessor ... registers is expensive in terms of time and resources. ...

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... as basic means to handle multiple accesses to resources. ... an additional group of services for the cyclic execution mode. ... of the areas where a kernel can benefit ...

[Web Search](#) - [BL Direct](#)

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... That way it can utilize the resources better ... Since all SimpleScalar simulators today run user-mode programs the ... mainly the new features of sim-kernel , for more ...

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P Reames, E Chan, F David, J Carlyle, R Campbell - [academic.ec.uiuc.edu](#)

... saving features, and an extendable coprocessor framework ... In embedded environments, the resource consolidation case ... When in guest kernel mode, all regions under ...

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... may give exclusive control of those resources to Security ... no provision for the OS kernel to disable ... be compromised when trusted execution mode internal proces ...

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... control to a routine that decodes the co-processor op-code ... of the issue unit 22 that allocates the resources of the ... The kernel mode 4B is the mode in which the ...

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... eliminated through the user of a per-coprocessor-context address ... buffers for memory access 3) Building memory resource lists in kernel mode 4) Creating ...

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... This co-processor, while effective for some situations, cannot be ... broken" only by the event or resource for which ... is about to return from kernel mode to user ...

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... This is important in order to be able to share resources among tasks ... from any code running in supervisor mode. This means that a faulty kernel is able to ...

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... resources in the SDRAM. ... A kernel for each MM to switch tasks is also customized based on the nature of the ... 2) Descriptor chain mode to chain some DMA transfers ...

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A Alkassar, M Scheibel, C Sttible, AR Sadeghi, M ... - [isse 2006 securing electronic buisness processes](#) - Springer

... This operation mode is useful when multiple users share a workstation and its resources. ...

The Linux 2.6.12 kernel for example comprises 4.4 million lines ...

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 ... eliminated through the user of a per-coprocessor-context address ... buffers for memory
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 ... of mechanisms that aim at scanning system resources and detecting ... i-mode to return
 control to the caller, the OS kernel. ... block cipher in a CBC-MAC mode (see [1 ...
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M Ducateau, JM Sers - US Patent 5,295,265, 1994 - freepatentsonline.com
 ... with the objects managed by a kernel, especially tasks ... to process a primitive, this
 mode comprising verification ... The RTO manipulates several types of resource: ...
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HU Manual - cse.unsw.edu.au
 ... 4-12 64-bit Kernel Mode, Compatibility Spaces (ckseg1:0, cksseg, ckseg3 ... v
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H Stamer, JS für Anwendungsprogramme, T GRUB, S ... - Kryptowochenende 2006—Workshop über Kryptographie ... -
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 ... Kernel Mode TPM Device Driver ... AES/3DES CNT mode or OFB mode Signature Schemes ... storing
 encrypted BLOBs outside) Key Cache Management (resource management outside ...
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JH Byun, AA Chien - www-csag.ucsd.edu
 ... Also, a kernel address space, which can only ... privileged mode with appropriate status
 bits and pointer ... control accesses to shared hardware resources(not visible ...
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 ... of SONET and ATM telecommunications tax the resources of RISC ... three instruction cycles
 and back to user mode in another ... 2 with the pointer from kernel RAM KO ...
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... user process performs acquisition/release of resources such as ... from the user mode to the kernel mode, according to ... 6, and in general, the kernel 6 abnormally ...

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... will base access-control decisions on both program and user resource requests ... User mode. ... half of the figure represents a small high-assurance OS kernel, which we ...

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P Tumati - [mtzweb.scs.uiuc.edu](#)

... Chapter 1 - System Overview, Resources, Expectations and Results ... issues instructions over the coprocessor bus; instead ... from user-mode to kernel-mode for system ...

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M Fuccio, S Desai - US Patent 5,249,281, 1993 - [Google Patents](#)

... memory is disclosed. In a "test mode" of operation, caches are accessed directly from the memory interface signals. Direct writing ...

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GM Uhler - US Patent 7,185,183, 2007 - [Google Patents](#)

... by the microprocessor if it is in "kernel" mode. ... leged (kernel) instruction, where the control register has ... what is called the Privileged Resource Architecture ...

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... in host memory (for example kernel data structures ... event log files, policy parameters, resource usage and ... switching between a "telecommuter user" mode and an ...

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... Physical resources—torus and collective networks, locks, barriers ... are meaningless in this kernel and have ... In coprocessor mode, a single dual-threaded process ...

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... of SONET and ATM telecommunications tax the resources of RISC ... three instruction cycles and back to user mode in another ... 2 with the pointer from kernel RAM k0 ...

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DR Engler, MF Kaashoek, JO Toole Jr - Proceedings of the fifteenth ACM symposium on Operating ..., 1995 - portal.acm.org

... systems, as should any "priv-ileged" co-processor state ... au- thorization from the actual use of a resource. ... of simple operations that the kernel (or hardware ...

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... from the PMT, thereby releasing all the memory resources used by ... of the peripheral is restricted to privileged-mode processes, eg the kernel process, and ...

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DCA Bulterman, G van Rossum, D Winter - homepages.cwi.nl

... endure and the fact that at the thread level only limited resource management facilities ... typical UNIX kernel, then the process and mode switching time ...

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... To enable this mode of operation, NGSCB platforms ... decisions on both program and user resource requests. ... for measuring and recording a booting kernel's digest ...

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PD Williams, EH Spafford - Computer Networks, 2007 - Elsevier

... Section 3.2, and hooks into various kernel data structures ... white-lists about which system resources are used ... was run as root in standalone mode (command line ...

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[CITATION] [IDT79R4600™ and IDT79R4700™ RISC Processor Hardware User's Manual](#)
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DF Nagle, RA Uhlig, TN Mudge - 1992 - Dept. of Electrical Engineering, University of Michigan

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C Cascaval, JG Castanos, L Ceze, M Denneau, M ... - ieeexplore.ieee.org

... These applications execute in user mode. The kernel exposes a single-address space shared by all ... of hard- ware threads available, no resource virtualization is ...

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K Asanovic, J Beck - UC Berkeley CS technical report UCB/CSD-97-930 - http://icsi.berkeley.edu

... User mode can access the system control coprocessor only if the cu[0] bit is set in the status register. Kernel mode can always access CP0, ...

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[PDF] [SPRING KERNEL VERSION 2 OS PRIMITIVES.](#)L Molesky - [isis.vanderbilt.edu](#)

... 3 Page 5. to the pools. These resources include all segments, eg pages for text, data, and stack, memory maps, and the PCB. ... mode Either KERNEL or USER. ...

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... inflicts damages with full, unrestricted access to the system's resources. ... a page may be set executable in user mode but non-executable in kernel mode. ...

[View as HTML](#) - [Web Search](#)**[The impact of MPI queue usage on message latency - all 7 versions »](#)**KD Underwood, R Brightwell - [Parallel Processing, 2004. ICPP 2004. International ...](#), 2004 - [ieeexplore.ieee.org](#)

... for maximizing both message passing throughput and application resource avail- ability ...

When the processors are configured in this mode, the kernel runs con ...

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... On Host Processor On the LANai network co-processor ... reducing the layers between hardware resources and user ... switches from user to kernel mode, and eliminating ...

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... Physical resources (torus, tree, mutexes, barriers, scratchpad) are ... of compute modes for our custom kernel. ... In co-processor mode, the application runs in a ...

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... the pipeline until the resource contention ends ... occurs, the processor halts regardless of kernel/user mode. ... 3.7 Coprocessor Registers Coprocessor registers are ...

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... However, to manage resources effectively, the operating system retains a ... can perform are the basic user operations and the kernel mode operations detailed ...

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Pilchard {A Reconfigurable Computing Platform with Memory Slot Interface

NT Shatin - doi.ieeecomputersociety.org

... Hence the resulting kernel mode encryption rate was over 35 MB/s. A user mode version using the ... sys- tem is simpler, uses less resources than conventional ...

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[PDF] Electrical Engineering and Computer Science Department

BN More - virtuoso.cs.northwestern.edu

... which is used to enable the floating point coprocessor. ... process could use the same resources, conflicting with ... the current processor ring is kernel mode when a ...

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KY Wang, DC Marinescu - 28th Hawaii Intl. Conf. System Sciences, 1995 - doi.ieeecomputersociety.org

... overall load placed upon the shared resources (com- munication ... In the SPMD mode, one could reasonably expect similar ... memory since the time the kernel was booted ...

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RE SMITH - ACM Transactions on Information and System Security, 2001 - portal.acm.org

... Tamperproof: the TCB itself and the resources that control ... code ran in the processor's kernel mode on LOCK ... Most TCB functions ran in user mode, including the ...

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M Dal Cin, A Grygier, H Hessenauer, U Hildebrand, ... - Parallel Computer Architectures, Lecture Notes in Computer ... - Springer

... the stable storage appears like a coprocessor which can ... to assume that the amount of resources, such as ... execution of the operating system in kernel mode is far ...

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